

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

0284196

065322

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**



Applicant: SMITH et al.

Appln. No.: 10/002,616

Filing Date: December 5, 2001

Examiner: Unassigned

Group Art Unit:

Date:

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U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
CL	AR 5,658,992	08/97	Ehlers et al.			
	BR 5,637,660	06/97	Nagy et al.			
	CR 3,956,253	05/76	Braun			
	DR 6,242,507	06/01	Saum et al.			
	ER 6,214,469	04/01	Sukhadia et al.			
	FR 6,114,457	09/00	Markel et al.			
	GR 5,852,143	12/98	Sishta et al.			
	HR 6,228,900	05/01	Shen et al.			
	IR 5,422,061	06/95	Takahashi et al.			
	JR					
	KR					

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FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
LR				Enclosed	No
MR				Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

NR	U.S. Aldrich Handbook of Fine Chemicals and Laboratory Equipment, 2000-2001 Edition, pp. 1360-1361.				
OR	J.C. Anderson, "High Density and Ultr-High Molecular Weight Polyethylenes: their Wear Properties and Bearing Applications," Tribology International, 1982, Vol. 15(1) pp. 43-47.				
PR	O.K. Muratoglu et al., "Unified Model for Highly Crosslinked Ultra-High Molecular Weight Polyethylenes (UHMWPE)," Biomaterials, 1999, Vo. 20, pp. 1463-1470.				
QR	K. Jordens et al., "The Influence of Molecular Weight and Thermal History on the Thermal, rheological, and Mechanical Properties of Metallocene-Catalyzed Linear Polyethylenes," Polymer, 2000, Vo. 41, pp. 7175-7192.				
RR	H. Hohn et al., "Verschleißverhalten von Ultrahochmolekularem Polyethylen bei Geitbeanspruchung," Kunststoffe, 1992, Vol. 82, pp. 391-394.				
SR	J. Berzen, "Hostalen GUR-Prüfmethoden und Charakteristik eines Verschleißfesten Werkstoffes," CA-Chemie-Technik, 1974, Nr. 4, pp. 129-134.				
TR	P. Vadhar and T. Kyu, "Effects of Mixing on Morphology, Rheology, and Mechanical Properties of Blends of Ultra-High Molecular Weight Polyethylene with Linear Low-Density Polyethylene," Polymer Engineering and Science, 1987, Vo. 27(3), pp. 202-210.				

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[Signature]

Date Considered:

7-28-03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	UR					
	VR					
	WR					
	XR					
	YR					
	ZR					

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				Enclosed	No
AAR					
BBR					

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

CCRM	M. M. Dumoulin et al., "Rheological and Mechanical Behavior of the UHMWPE/MDPE Mixtures," 1984, Vol. 24(2), pp. 117-126.				
DDR	L. Minkova and M. Mihailov, "A Calorimetric Study of Normal High Density and Ultra-High Molecular Weight Polyethylene Blends," Colloid & Polymer Science, 1987, Vol. 265, pp. 1-7.				
EER	D. M. Khanin et al., "Relation of Abrasion of Some Molecular-Weight Characteristics of High-Pressure Polyethylene," Journal of Applied Chemistry of the USSR, 1989, Vol. 62, pp. 2451-2453.				
FFR	Y. Huang and N. Brown, "Slow Crack Growth in Blends of HDPE and UHMWPE," Polymer, 1992, Vol. 27, pp. 44-48.				
GGR	A. G. Sirota et al., "On Abrasive Wear Resistance Dependence on the Molecular Characteristics of HDPE," Trenie I. Iznos, 1986, Vol. 7, pp. 358-361.				
HHR	A.F. Margolies, "Effect of Molecular Weight on Properties of HDPE," SPE Journal, 1971, Vol. 27, pp. 44-48.				
IIR	R.I. Trezona et al., "Transitions between Two-body and Three-body Abrasive Wear: Influence of Test Conditions in the Microscale Abrasive Wear Test," Wear, 1999, Vol. 229, pp. 205-214.				
JJR	J.F. Vega et al., "Small-Amplitude Oscillatory Shear Flow Measurements as a Tool to Detect Very Low Amounts of Long Chain Branching in Polyethylenes," Macromolecules, 1998, Vol. 31, pp. 3639-3647.				

Examiner

Wayne Lu

Date Considered:

7-28-02

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	KKR					
	LLR					
	MMR					
	NNR					
	OOR					
	PPR					

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				Enclosed	No
QQR					
RRR					

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

SSR	A. Boscolo Boscoletto et al., "An Investigation on Rheological and Impact Behavior of High Density and Ultrahigh Molecular Weight Polyethylene Mixtures," European Polymer Journal, 1997, Vol. 34, pp. 791-792.			
TTR	M.S. Silverstein and J. Breitner, Wear and Friction in UHMWPE/PTFE Blends," Polymer Preprints, 1993, Vol. 34, pp. 791-792.			
UUR	T. Tinçer and M. Coşkun, "Melt Blending of Ultrahigh-Molecular Weight and High-Density Polyethylene: the effect of the Mixing Rate on Thermal, Mechanical, and Morphological Properties," Polymer Engineering and Science, 1993, Vol. 33, pp. 1243-1250.			
VVR	K.L. Rutherford and I.M. Hutchings, "Theory and Application of a Micro-Scale Abrasive Wear Test," Journal of Testing and Evaluation, 1997, Vol. 25, pp. 250-260.			
WWI	R.I. Trezona and I.M. Hutchings, Three-body Abrasive Wear Testing of Soft Materials," Wear, 1999, Vol. 31, pp. 3639.			
XXR				
YYR				

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Agner Lu

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7-28-03

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